SLOVENSKI STANDARD
SIST HD 22.8 S2:1998/A1:1999

01-november-1999

Kabli z omreženo izolacijo za naznačene napetosti do vključno 450/750 V - 8. del: Kabli za okrasne verige, oplaščeni s polikloroprenom ali enakovrednim sintetičnim elastomerom

Cables of rated voltages up to and including 450/750 V and having cross-linked insulation - Part 8: Polychloroprene or equivalent synthetic elastomer sheathed cable for decorative chains

Starkstromleitungen mit vernetzter Isolierhülle für Nennspannungen bis 475/750 V -- Teil 8: Starkstromleitungen mit einem Mantel aus Polychloropren oder gleichwertigem synthetischen Elastomer für Lichterketten

Conducteurs et câbles isolés avec des matériaux réticulés de tension assignée au plus égale à 450/750 V -- Partie 8: Câbles sous gaine en polychloroprène ou élastomère synthétique équivalent pour guirlandes lumineuses

Ta slovenski standard je istoveten z: **HD 22.8 S2:1994/A1:1999**

ICS:

29.060.20 Kabli Cables

SIST HD 22.8 S2:1998/A1:1999 **en**

HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 22.8 S2/A1

January 1999

ICS 29.060.20

Descriptors: Electrical installation, insulated cable, outer sheath, rubber, lighting chain

English version

Rubber insulated cables of rated voltages up to and including 450/750 V
Part 8: Polychloroprene or equivalent synthetic elastomer sheathed cable for decorative chains

Conducteurs et câbles isolés au caoutchouc de tension assignée au plus égale à 450/750 V
Partie 8: Câbles sous gaine en polychloroprène ou élastomère synthétique équivalent pour guirlandes lumineuses

Gummi-isolierte Leitungen mit Nennspannungen bis 450/750 V
Teil 8: Starkstromleitungen mit einem Mantel aus Polychloropren oder gleichwertigem synthetischen Gummi für Lichterketten

This amendment A1 modifies the Harmonization Document HD 22.8 S2:1994; it was approved by CENELEC on 1998-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this amendment on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This amendment was prepared by the Technical Committee CENELEC TC20, Electric cables, and agreed at the Copenhagen meeting (June 1996) to go forward to the Unique Acceptance Procedure.

This amendment has been prepared within the regular maintenance programme which covers all Parts of HD 22.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to HD 22.8 S2:1994 on 1998-08-01 .

The following dates were fixed:

- latest date by which the existence of the amendment has to be announced at national level	(doa)	1998-12-01
- latest date by which the amendment has to be implemented at national level by publication of a harmonized national standard or by endorsement	(dop)	1999-06-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn	(dow)	2000-06-01

Amendment A1 to HD 22.8 S2

Sub-clause 2.3.8

Amend the end of the sub-clause to read:

" ..... Part 1, sub-clause 3.2"

Table I

In the French version only, amend the values in columns 6 and 7 for single core cables as follows:

1	6	7
mm²	mm	mm
1 x 0,75 1 x 1,0 1 x 1,5	4,1 4,3 4,5	5,2 5,3 5,6

Sub-clause 3.3.7

Amend the end of the sub-clause to read:

" ..... Part 1, sub-clause 3.2"

Tables II and IV

Delete existing Tables II and IV and replace as attached.

Annex A

Delete HD 405.1 and HD 505

Insert:

EN 50265-2-1 Common test methods for cables under fire conditions - Test for resistance to vertical flame propagation for a single insulated conductor or cable -- Part 2-1: Procedures - 1kW pre-mixed flame

EN 60811 Insulating and sheathing materials of electric cables - Common test methods

Table II

Tests for Types H05RN-F and H05RNH2-F

1	2	3	4	5
Ref. No.	Test	Category of test	Test Method described in:	
			HD / EN	Clause
1.	Electrical Tests			
1.1	Resistance of conductors	T, S	22.2	2.1
1.2	Voltage test on cores at 2000V	T	22.2	2.3
1.3	Voltage test on completed cable at 2000V	T, S	22.2	2.2
1.4	Absence of faults in insulation	R	22.2	2.6
1.5	Surface resistance of sheath	T	22.2	2.7
2.	Provisions covering constructional and dimensional characteristics			
2.1	Checking of compliance with constructional provisions	T, S	22.1	Inspection and manual tests
2.2	Measurement of thickness of insulation	T, S	22.2	1.9
2.3	Measurement of sheath thickness	T, S	22.2	1.10
2.4	Measurement of overall dimensions	T, S	22.2	1.11
2.4.1	Mean Value	T, S		
2.4.2	Ovality	T, S		
2.4.3	Distance between centres of conductors	T, S	22.8	2.4
2.5	Solderability test (plain conductors)	T	22.2	1.12
3.	Mechanical properties of insulation			
3.1	Tensile test before ageing	T	60811-1-1	9.1
3.2	Tensile test after ageing in the air oven(1)	T	60811-1-2	8.1.3.2a
3.3	Tensile test after ageing in the air bomb	T	60811-1-2	8.2
3.4	Hot set test	T	60811-2-1	9
3.5	Ozone resistance test: either method may be used			
	(a) Method A	T	60811-2-1	8
	(b) Method B	T	22.2	7.3

(1) See also the footnote to Table 1 of HD22.1 for compound EI 4.

Table II
(concluded)

Tests for Types H05RN-F and H05RNH2-F

1	2	3	4	5
Ref. No.	Test	Category of test	Test Method described in:	
			HD / EN	Clause
4.	Mechanical properties of sheath			
4.1	Tensile test before ageing	T	60811-1-1	9.2
4.2	Tensile test after ageing in the air oven	T	60811-1-2	8.1.3.1
4.3	Tensile test after immersion in oil	T	60811-2-1	10
4.4	Hot set test	T	60811-2-1	9
4.5	Cold bending test	T	60811-1-4	8.2
5.	Mechanical strength of completed cable			
5.1	Flexing test for multicore cables	T	22.2	3.1 and 2.3
6.	Test under fire conditions	T	50265-2-1	-

Table IV

Tests for Type H03RN-F

1	2	3	4	5
Ref. No.	Tests	Category of test	Test method described in	
			HD / EN	Clause
1.	Electrical Tests			
1.1	Resistance of conductors	T, S	22.2	2.1
1.2	Voltage test on cores at 1500V	T	22.2	2.3
1.3	Voltage test on complete cable at 2000V	T, S	22.2	2.2
1.4	Absence of faults in insulation	R	22.2	2.6
1.5	Surface resistance of sheath	T	22.2	2.7
2.	Provisions covering constructional and dimensional characteristics			
2.1	Checking of compliance with constructional provisions	T, S	22.1	Inspection and manual tests
2.2	Measurement of thickness of insulation	T, S	22.2	1.9
2.3	Measurement of sheath thickness	T, S	22.2	1.10
2.4	Measurement of overall dimensions	T, S	22.2	1.11
2.4.1	Mean value	T, S		
2.4.2	Ovality	T, S		
2.5	Solderability test (plain conductors)	T	22.2	1.12
3.	Mechanical properties of insulation			
3.1	Tensile test before ageing	T	60811-1-1	9.1
3.2	Tensile test after ageing in air oven(1)	T	60811-1-2	8.1.3.2a
3.3	Tensile test after ageing in air bomb	T	60811-1-2	8.2
3.4	Hot set test	T	60811-2-1	9
3.5	Ozone resistance test: either method may be used			
	(a) Method A	T	60811-2-1	8
	(b) Method B	T	22.2	7.3
4.	Mechanical properties of sheath			
4.1	Tensile test before ageing	T	60811-1-1	9.2
4.2	Tensile test after ageing in air oven	T	60811-1-2	8.1.3.1
4.3	Tensile test after immersion in oil	T	60811-2-1	10
4.4	Hot set test	T	60811-2-1	9
4.5	Cold bending test	T	60811-1-4	8.2
5.	Test under fire conditions	T	50265-2-1	-

(1) See also the footnote to Table 1 of HD 22.1 for compound EI 4